

FIG. 1

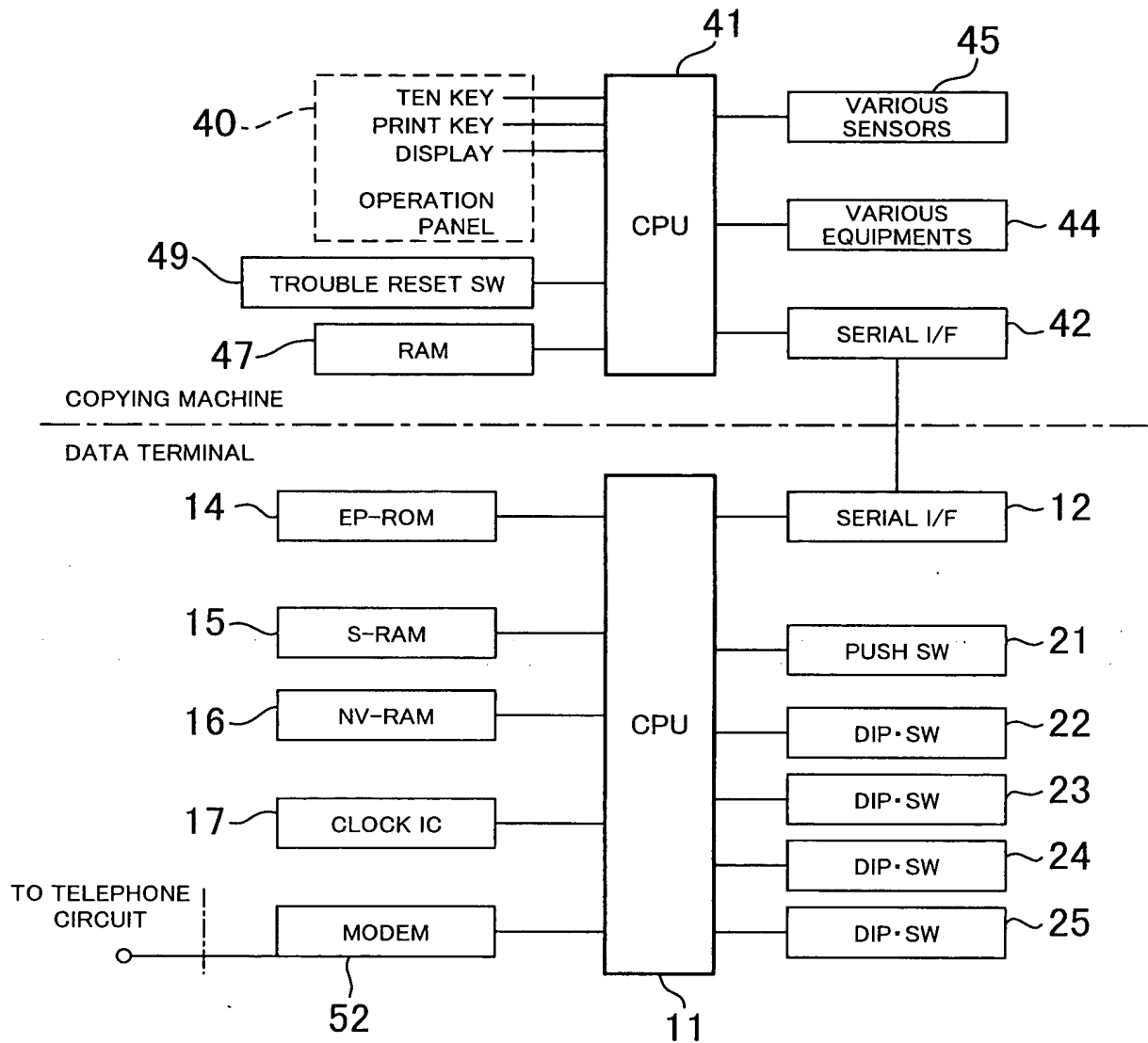


FIG. 2

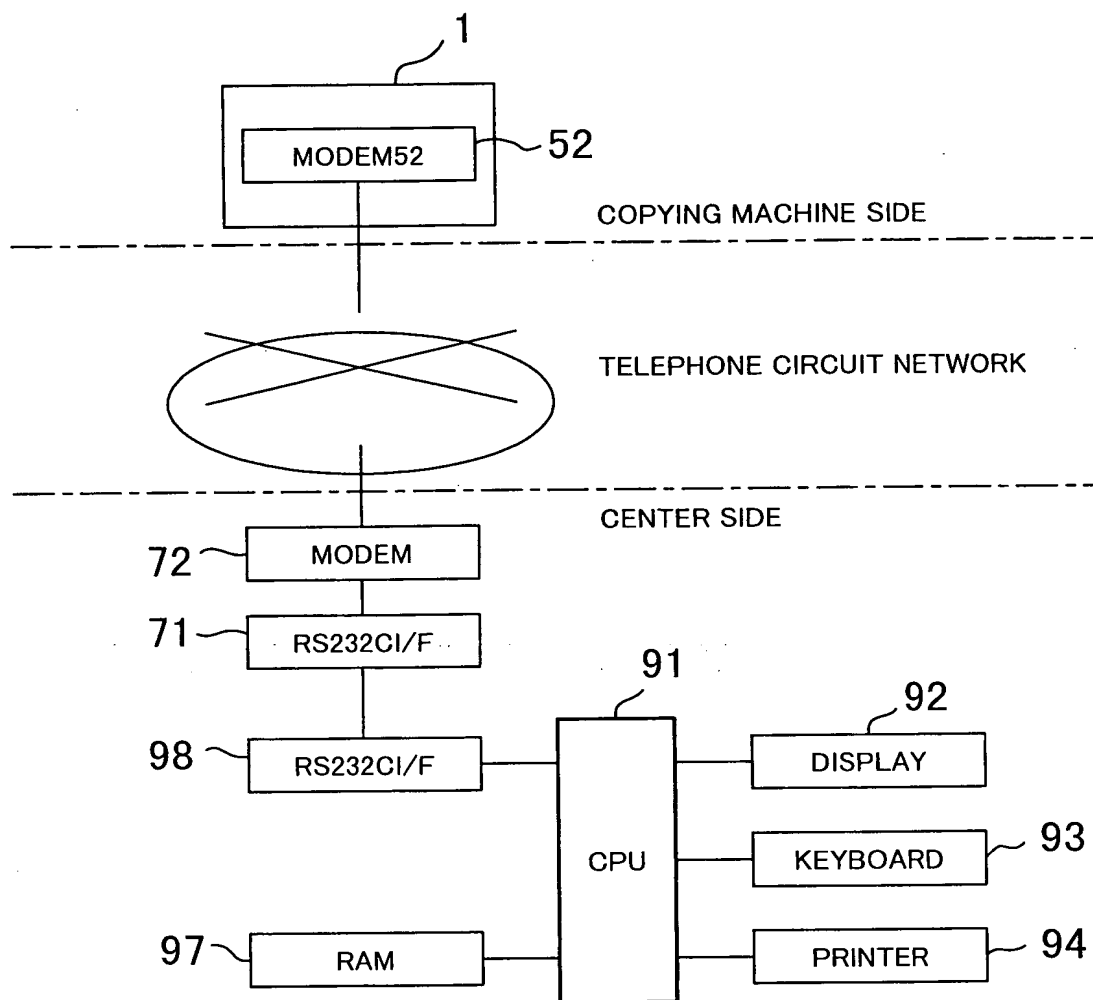


FIG. 3

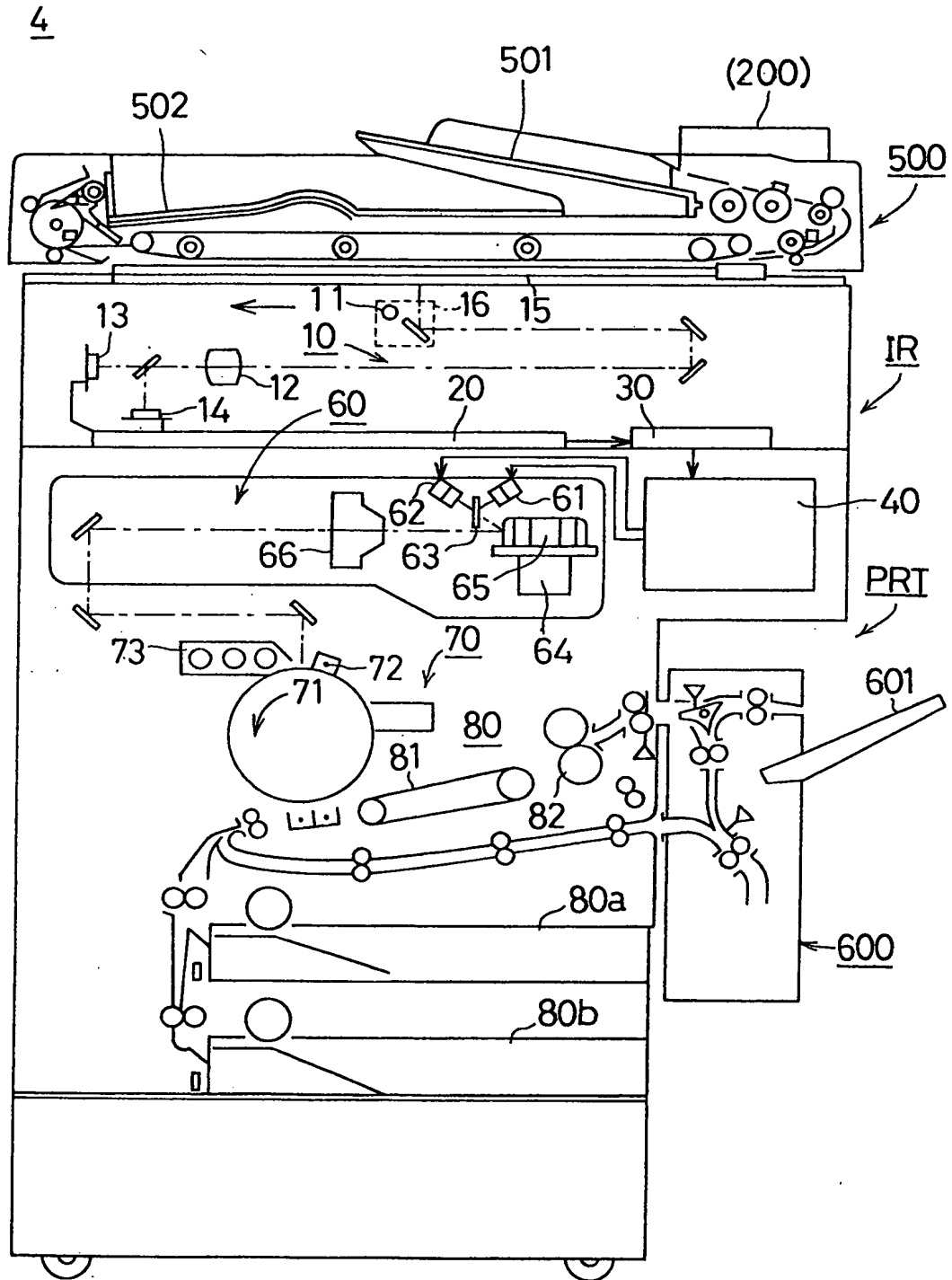


FIG. 4

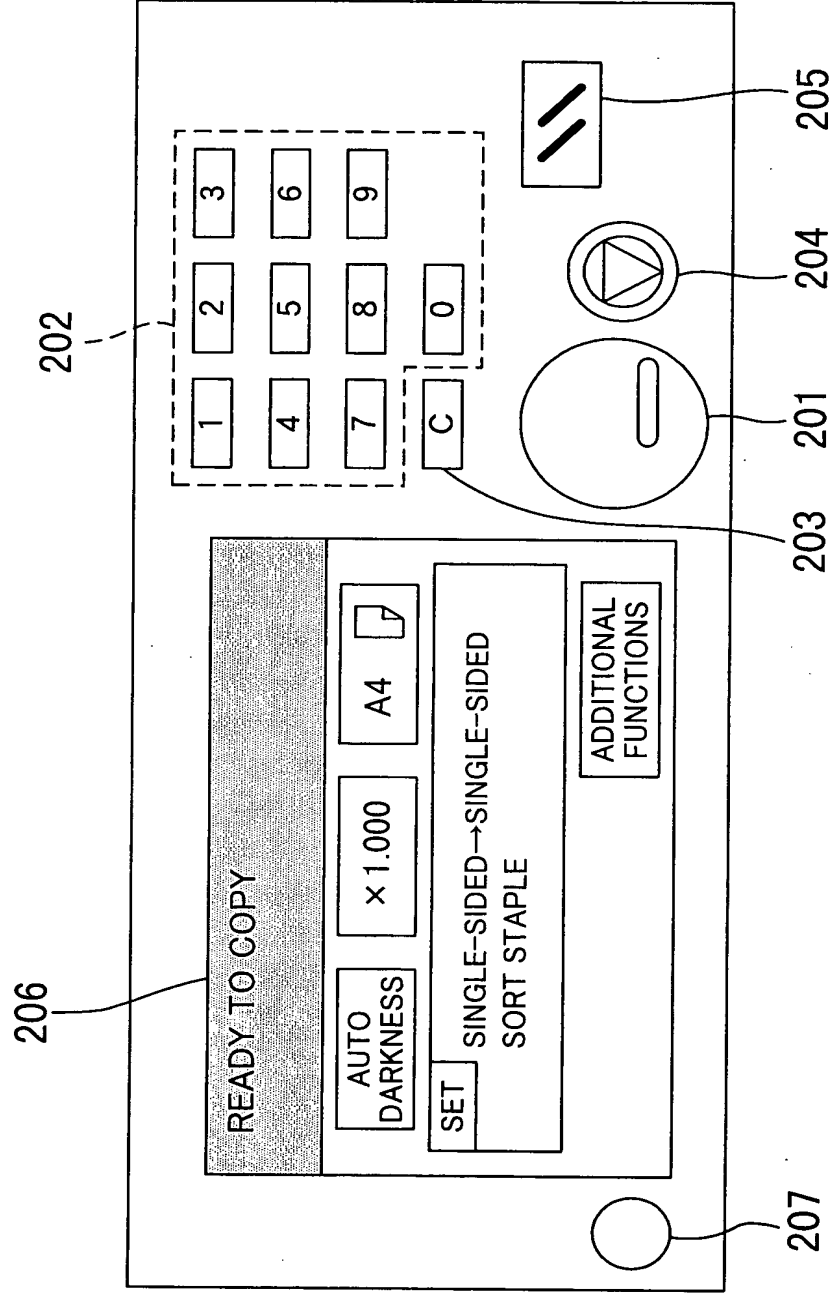


FIG. 5

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graph TD
    START([START]) --> S6-1[INITIALIZATION]
    S6-1 --> S6-2[START THE INTERNAL TIMER]
    S6-2 --> S6-3[KEY-INPUT PROCESSING]
    S6-3 --> S6-4[DISPLAY PROCESSING]
    S6-4 --> S6-5[COMMUNICATION PROCESSING]
    S6-5 --> S6-6[OTHER PROCESSING]
    S6-6 --> S6-7{IS THE INTERNAL TIMER TERMINATED?}
    S6-7 -- Y --> S6-2
    S6-7 -- N --> END([END])

```

S6-1

S6-2

S6-3

S6-4

S6-5

S6-6

S6-7

N

Y

	PART ID	INTEGRATING COUNTER	INTEGRATING TIMER
Dram-top	0000	00000005	00000000
	0004	00000003	00000000
	0101	00000000	00000000
	0102	00000000	00000000
	:		
	:		
	7FFF	00000111	00000000
	8000	00000000	00000005
	8003	00000000	00000007
	9005	00000000	00000000
	00A1	00000000	00000000
	FFFF		
	Dram-bottom		

FIG. 7

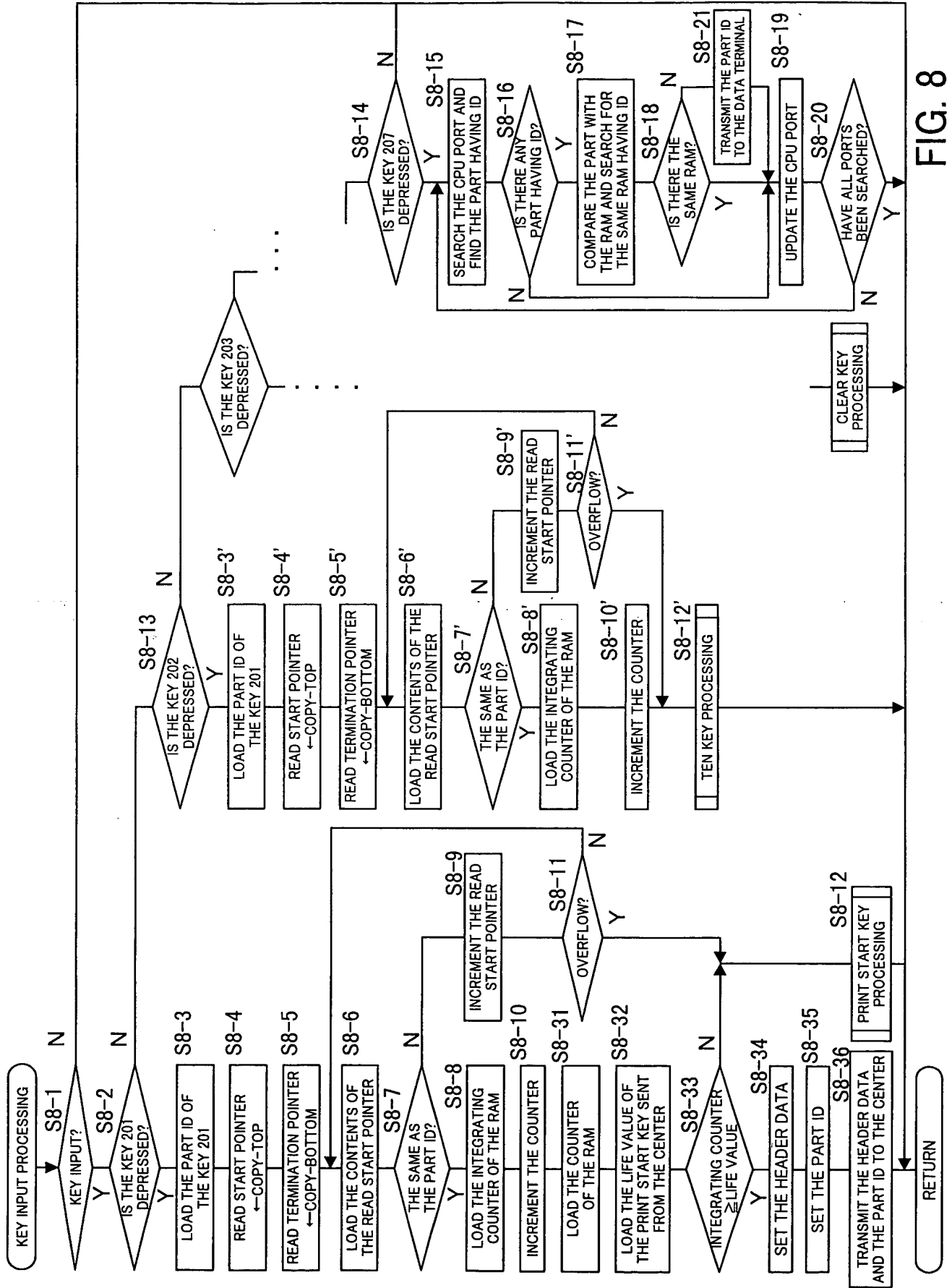


FIG. 8

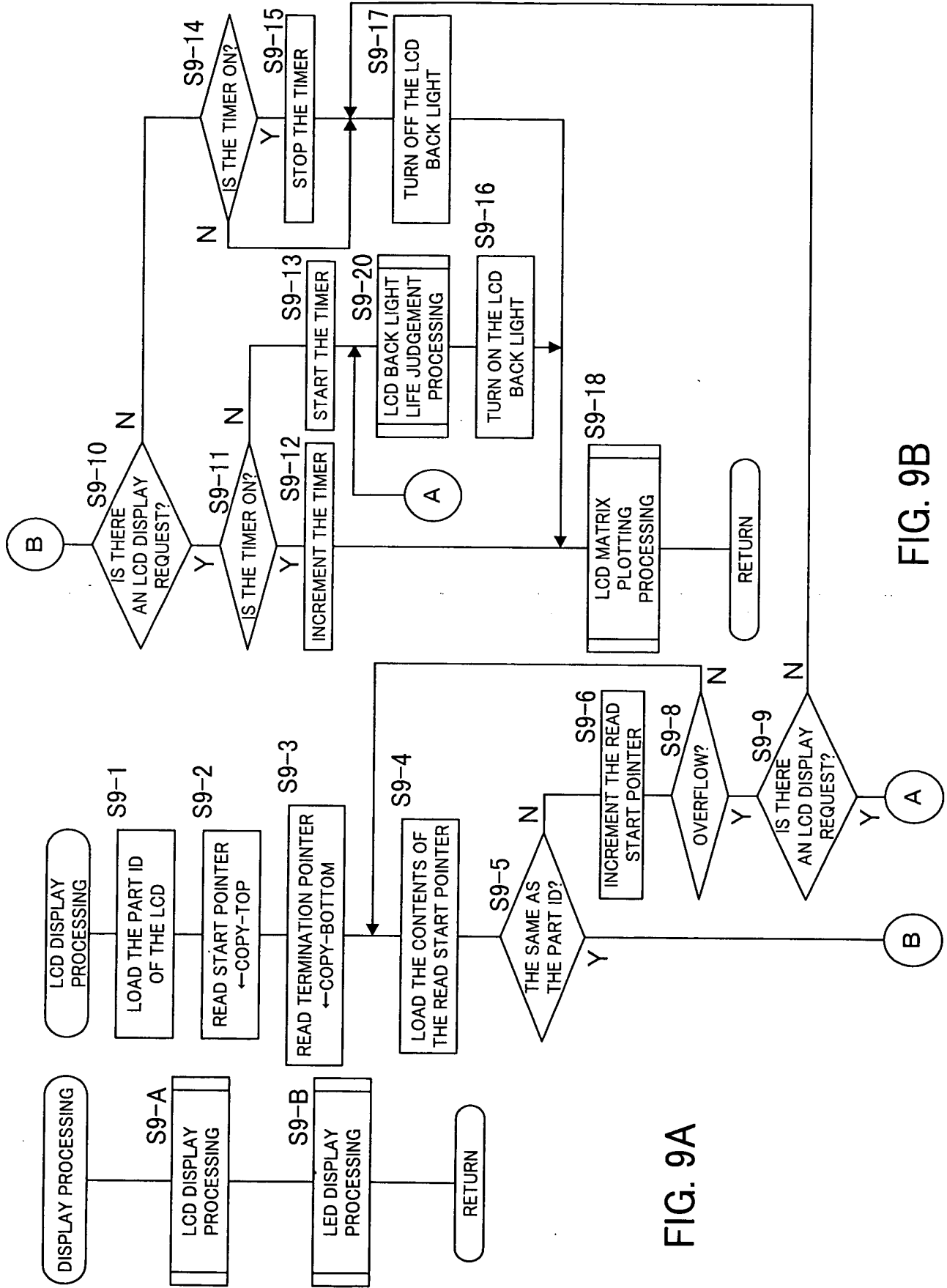


FIG. 9A

FIG. 9B

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graph TD
    S9-20([LCD BACK LIGHT LIFE JUDGEMENT PROCESSING]) --> S920-1[LOAD THE TIMER VALUE]
    S920-1 --> S920-2[LOAD THE LIFE VALUE OF THE LCD BACK LIGHT SENT FROM THE CENTER]
    S920-2 --> S920-3{TIMER VALUE ≥ LIFE VALUE}
    S920-3 -- Y --> S920-4{LIFE PROLONG FLAG = 1}
    S920-3 -- N --> S920-7[SET THE LCD BACK LIGHT CURRENT TO 100%]
    S920-4 -- Y --> S920-6[SET THE LCD BACK LIGHT CURRENT TO 80%]
    S920-4 -- N --> S920-5[LIFE PROLONG FLAG ← 1]
    S920-5 --> S920-6
    S920-6 --> RETURN([RETURN])
    S920-7 --> S920-6

```

FIG.10

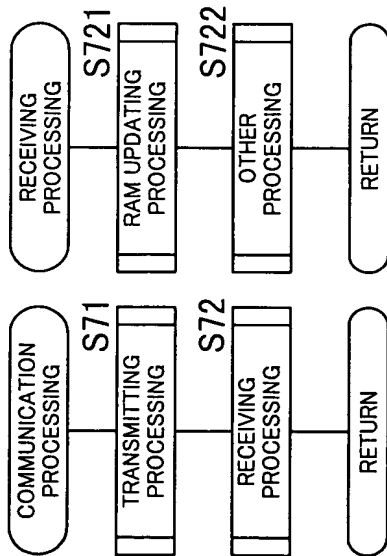


FIG. 11A

FIG. 11B

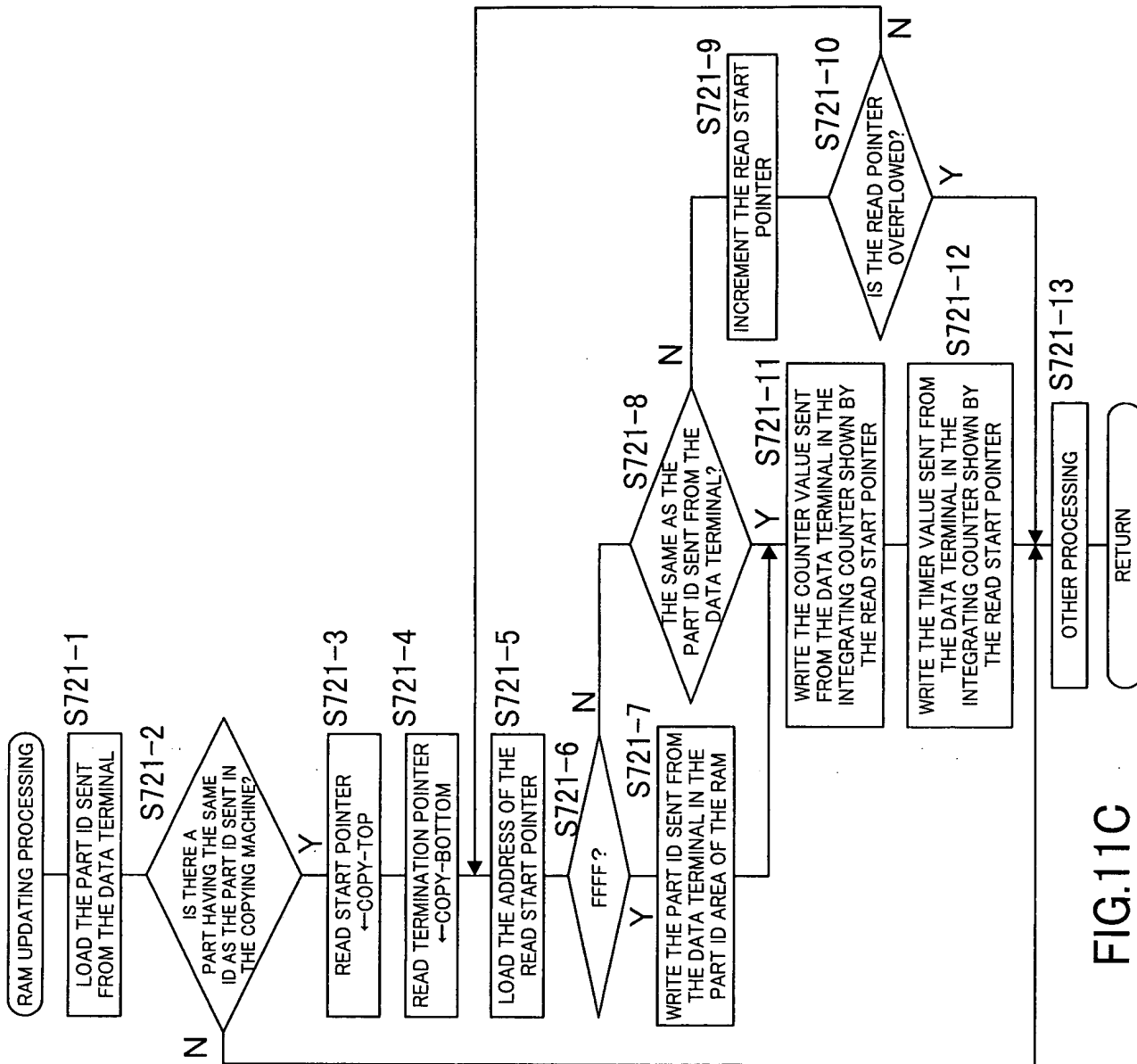


FIG. 11C

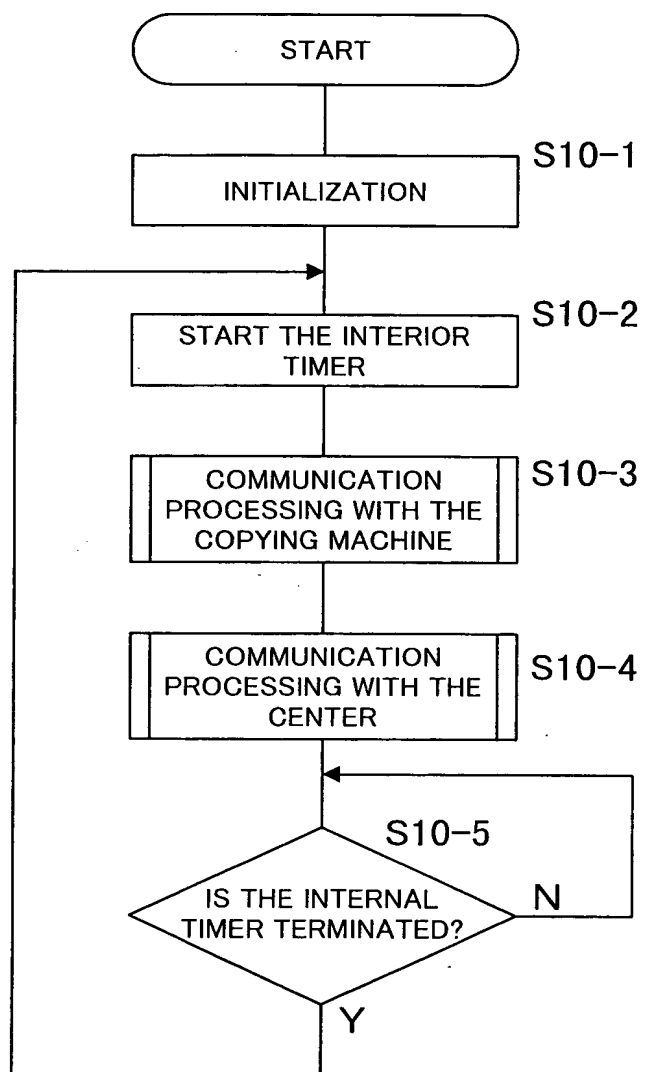


FIG.12

PART ID	RECEIVED DATA FROM THE COPYING MACHINE		RECEIVED DATA FROM THE CENTER	
	INTEGRATING COUNTER	INTEGRATING TIMER	RECEIVING COUNTER	RECEIVING TIMER
Dram-top	0000	00000005	00000000	00000000
	0004	00000003	00000000	00000000
	0101	00000000	00001000	00000000
	0102	00000000	00000200	00000000
	FFFF			
	:			
	7FFF	00000111	00000000	00000000
	8000	00000000	00000005	00000000
	8003	00000000	00000007	00000000
	9005	00000000	00000000	00000008
	90A1	00000000	00000000	00000100
	FFFF			
	:			
	:			
	:			
Dram-bottom				

FIG.13

2 BYTE	
TxID-top	0004
	0011
TxID-bottom	

FIG.14

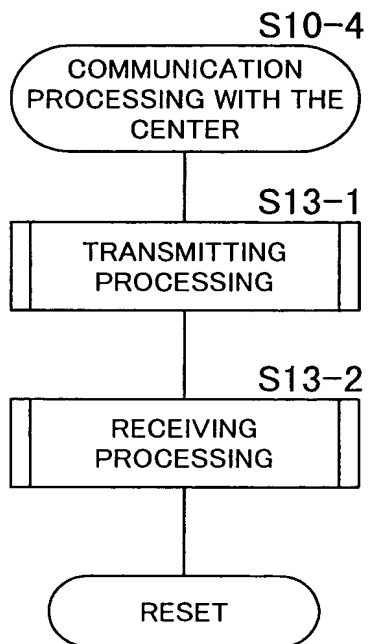


FIG.15A

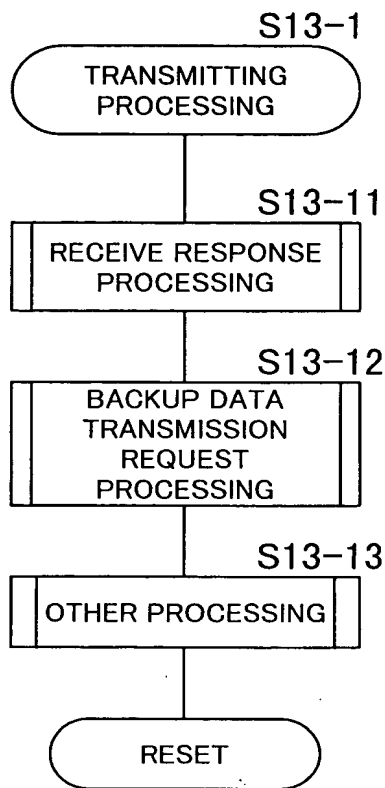


FIG.15B

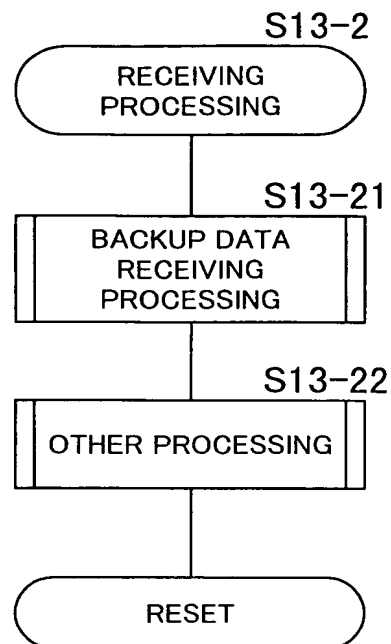


FIG.15C

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graph TD
    Start([RECEIVE RESPONSE PROCESSING]) --> S14-1{S14-1  
IS THE COMMUNICATION SYSTEM INCONSISTENT WITH THAT OF THE CENTER?}
    S14-1 -- Y --> S14-2[DISCONNECT THE COMMUNICATION CIRCUIT]
    S14-1 -- N --> S14-3[RECEIVE THE HEADER DATA]
    S14-3 --> S14-4{S14-4  
IS THE HEADER DATA REQUESTING THE SPECIFIED PART DATA TRANSMISSION?}
    S14-4 -- Y --> S14-5[LOAD THE PART ID]
    S14-5 --> S14-6[READ START POINTER ← DRAM-TOP]
    S14-6 --> S14-7[READ TERMINATION POINTER ← DRAM-BOTTOM]
    S14-7 --> S14-24[LOAD THE CONTENTS OF THE READ START POINTER]
    S14-24 --> S14-8{S14-8  
IS THE CONTENTS OF THE READ START POINTER ADDRESS CONSISTENT WITH THE PART ID?}
    S14-8 -- Y --> S14-9[LOAD THE PART ID, INTEGRATING COUNTER, INTEGRATING TIMER]
    S14-9 --> S14-10[FORM THE DATA INTO A TRANSMISSION FORM]
    S14-10 --> S14-11[TRANSMIT]
    S14-11 --> S14-13{S14-13  
THE READ START POINTER > READ TERMINATION POINTER?}
    S14-13 -- Y --> S14-2
    S14-13 -- N --> S14-12[INCREMENT THE READ START POINTER]
    S14-12 --> S14-8
    S14-4 -- N --> S14-14{S14-14  
ALL PARTS DATA TRANSMISSION REQUEST?}
    S14-14 -- Y --> S14-15[READ START POINTER ← DRAM-TOP]
    S14-15 --> S14-16[READ TERMINATION POINTER ← DRAM-BOTTOM]
    S14-16 --> S14-17[LOAD THE ADDRESS SHOWN BY THE READ START POINTER]
    S14-17 --> S14-18{S14-18  
IS THE ID INVALID?}
    S14-18 -- Y --> S14-19[LOAD THE PART ID, INTEGRATING COUNTER, INTEGRATING TIMER]
    S14-19 --> S14-20[FORM THE DATA INTO A TRANSMISSION FORM]
    S14-20 --> S14-21[TRANSMIT]
    S14-21 --> S14-22[INCREMENT THE READ START POINTER]
    S14-22 --> S14-23{S14-23  
THE READ START POINTER > READ TERMINATION POINTER?}
    S14-23 -- Y --> S14-2
    S14-23 -- N --> S14-14
    S14-14 -- N --> A1((A))
    S14-2 --> End([RETURN])
    A1 --> A2((A))
    A2 --> S14-23
  
```

FIG. 16

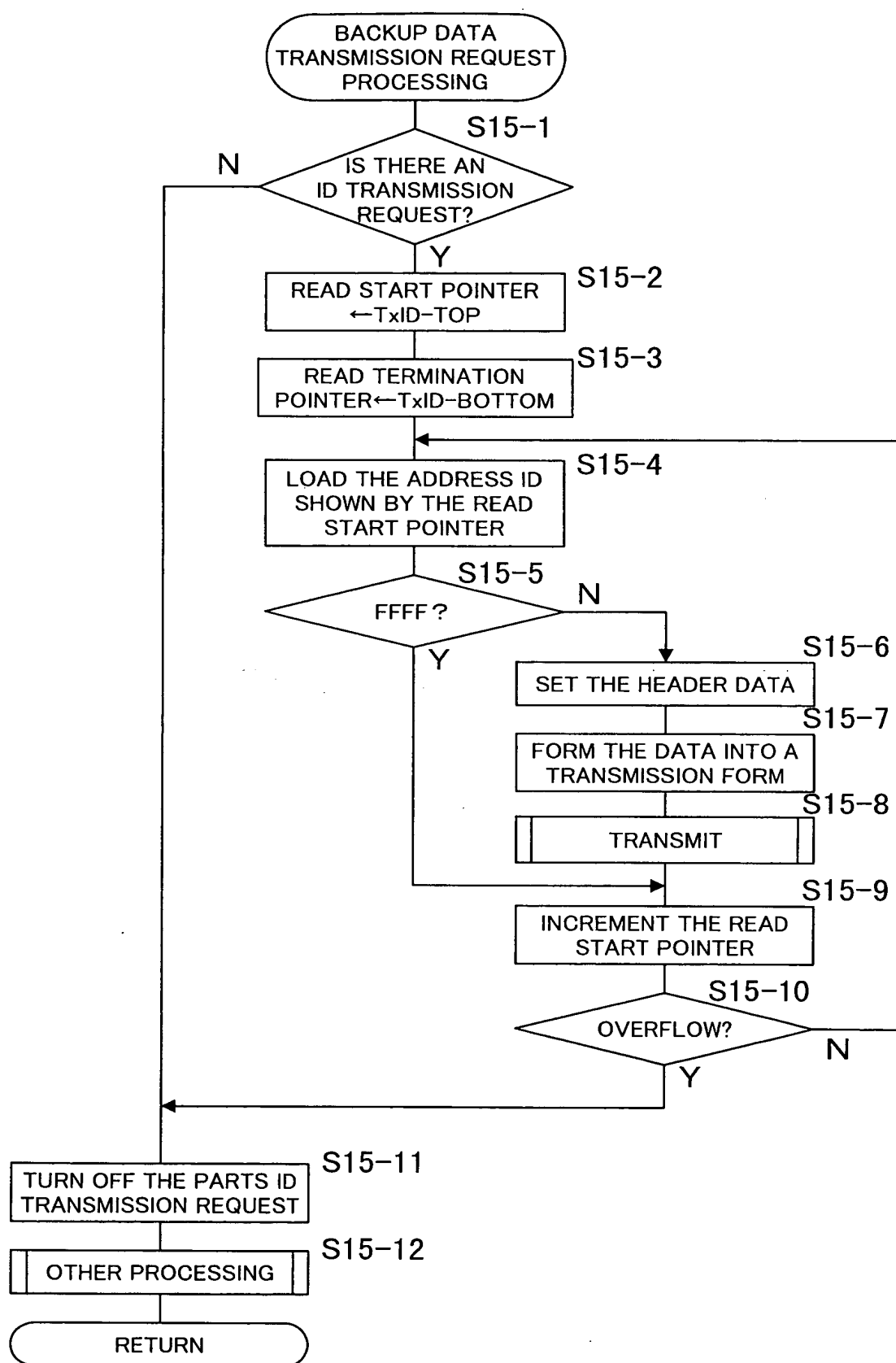
[illegible]

FIG.17

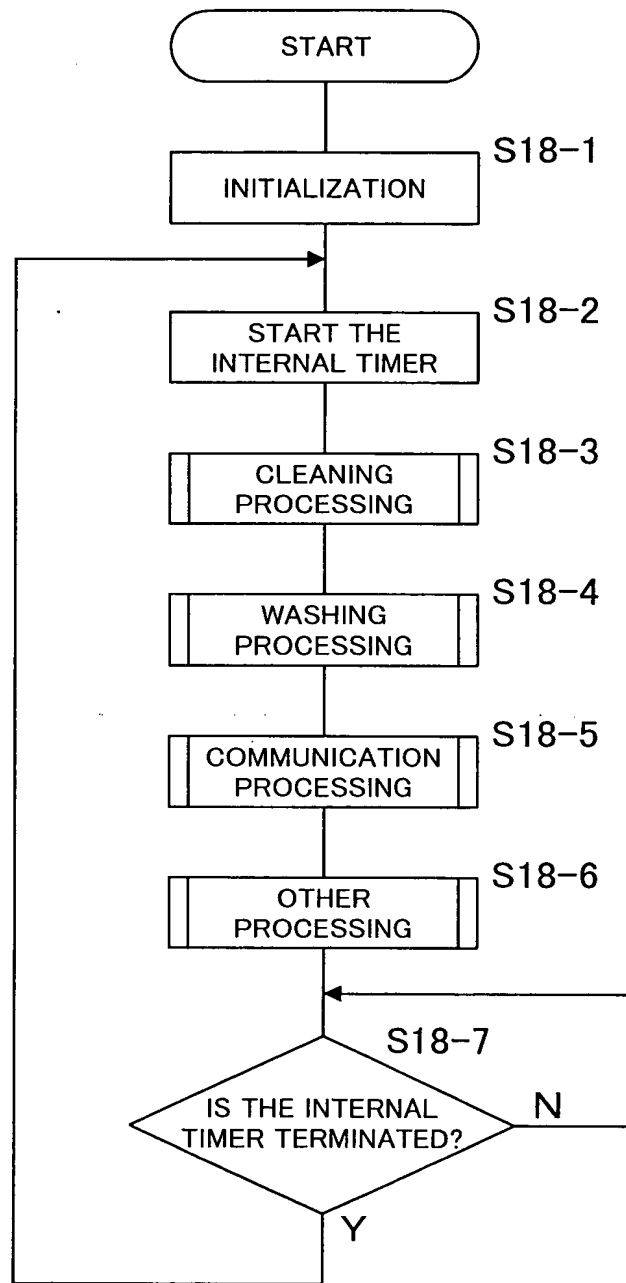


FIG.18

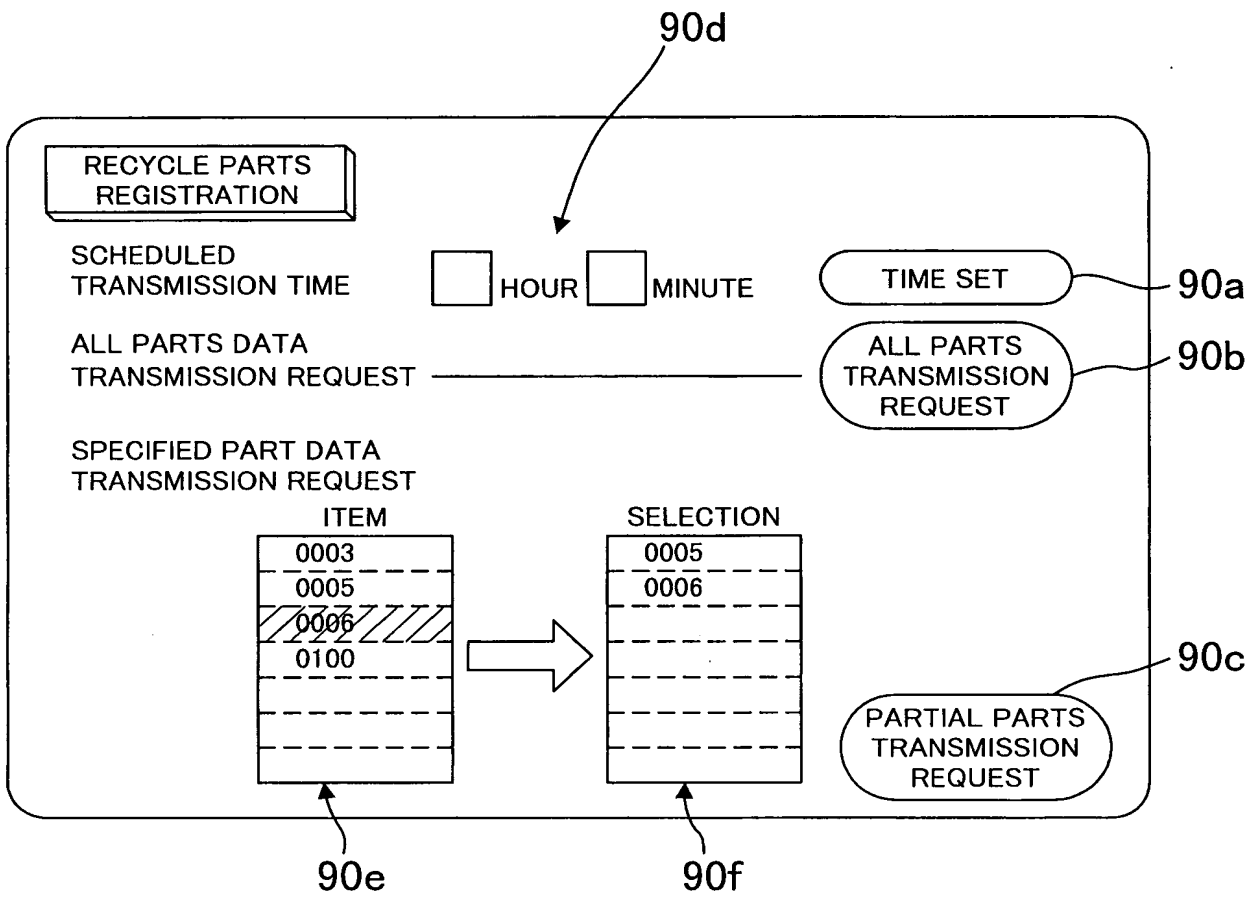


FIG.19

	PART ID	INTEGRATING COUNTER	INTEGRATING TIMER
Dram-top	0000	00000005	00000000
	0002	00000008	00000000
	0003	01001001	00000000
	0004	00000003	00000000
	00F8	01A8A485	0586243A
	0101	00000000	00000000
	0102	00000000	00000000
	0234	00000000	00000000
	0245	00000000	00000000
	7F00	00000000	00000000
	7FFF	00000111	00000000
	8000	00000000	00000005
	8001	00000000	0018A456
	8003	00000000	00000007
	8005	00000000	0000188A
	8008	00000000	000ABCDE
	8124	00000000	000CCDFA
	8234	00000000	000AABBC
	9005	00000000	00000000
	90A1	00000000	00000000
	ABCD	00000000	00000000
	ADF0	00000000	00000000
Dram-bottom	FFFF		

FIG.20

(1) WHEN THE TERMINAL TRANSMITS

(1-1) FORMAT AT THE TIME OF THE BACKUP DATA TRANSMISSION REQUEST



(1-2) FORMAT AT THE TIME OF THE RECYCLE DATA TRANSMISSION

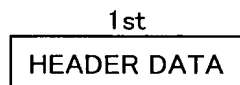


(1-3) FORMAT AT THE TIME OF THE PROHIBITION NOTICE



(2) WHEN THE CENTER TRANSMITS

(2-1) FORMAT AT THE TIME OF THE ALL PARTS DATA TRANSMISSION REQUEST



(2-2) FORMAT AT THE TIME OF THE SPECIFIED PARTS DATA TRANSMISSION REQUEST



(2-3) FORMAT AT THE TIME OF THE BACKUP DATA TRANSMISSION



(2-4) FORMAT AT THE TIME OF THE LIFE VALUE TRANSMISSION



(3) WHEN THE CLEANING APPARATUS TRANSMITS

(3-1) FORMAT AT THE TIME OF THE CLEANING TERMINATION SIGNAL



FIG.21

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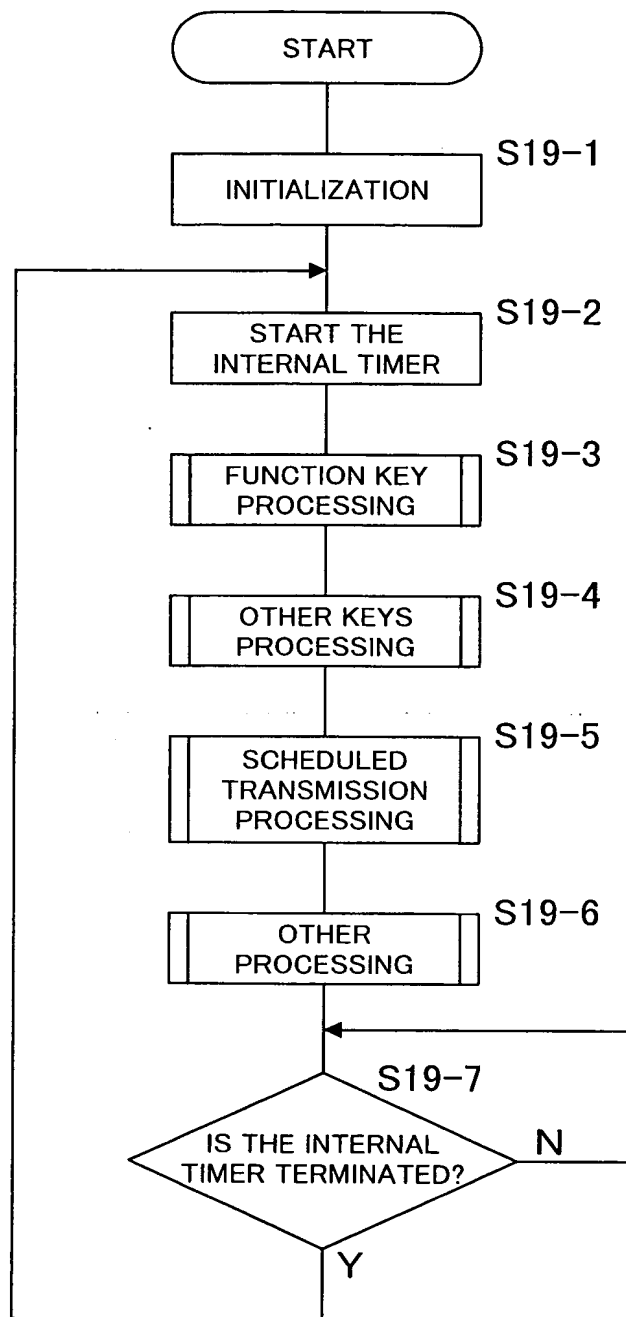
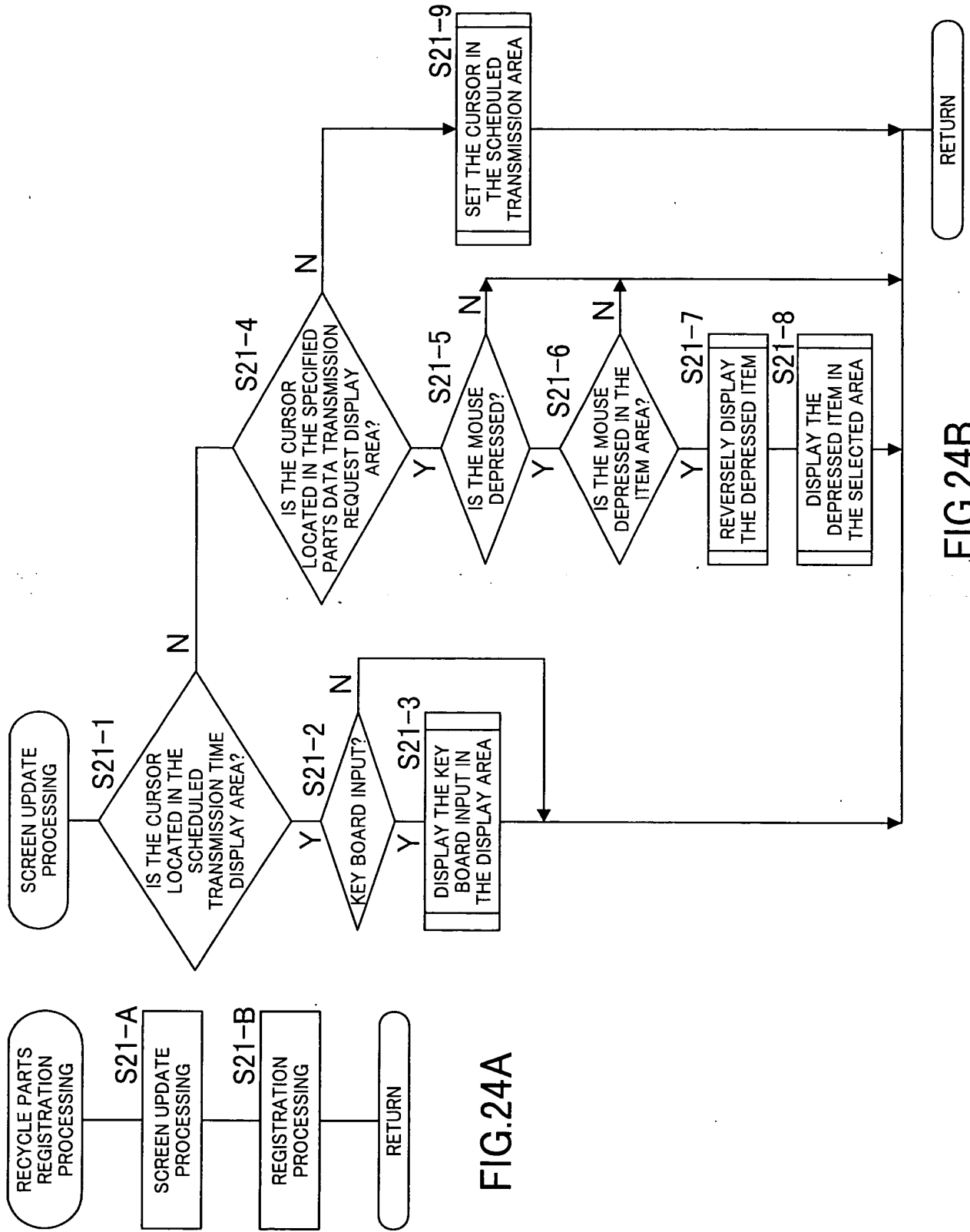


FIG.22



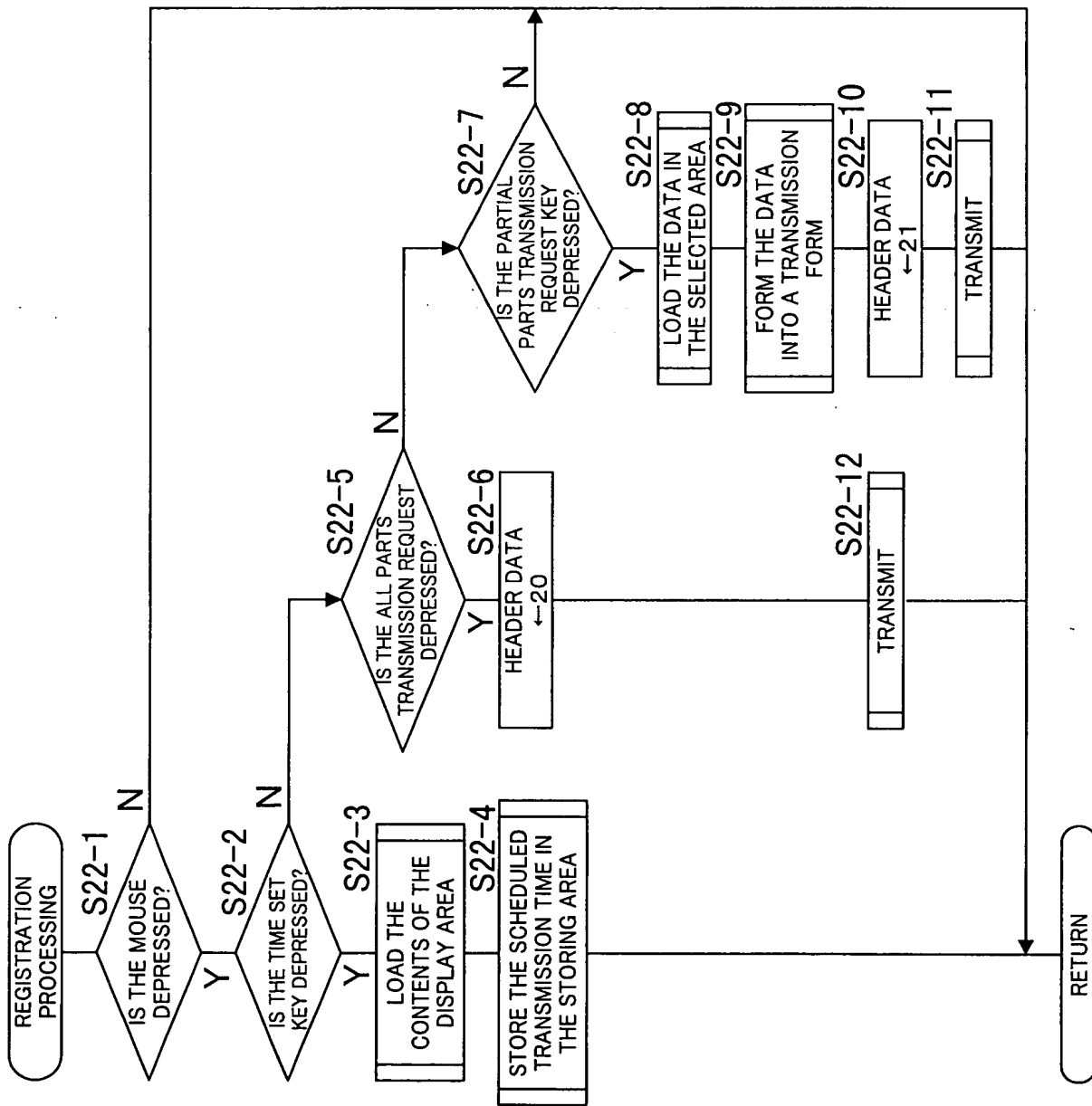


FIG.25A

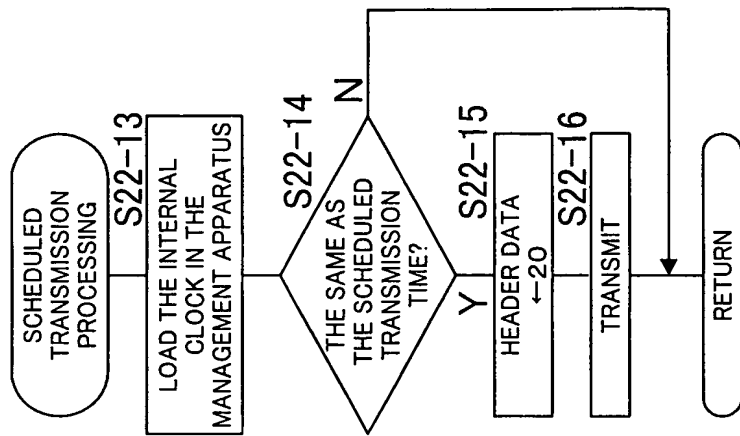
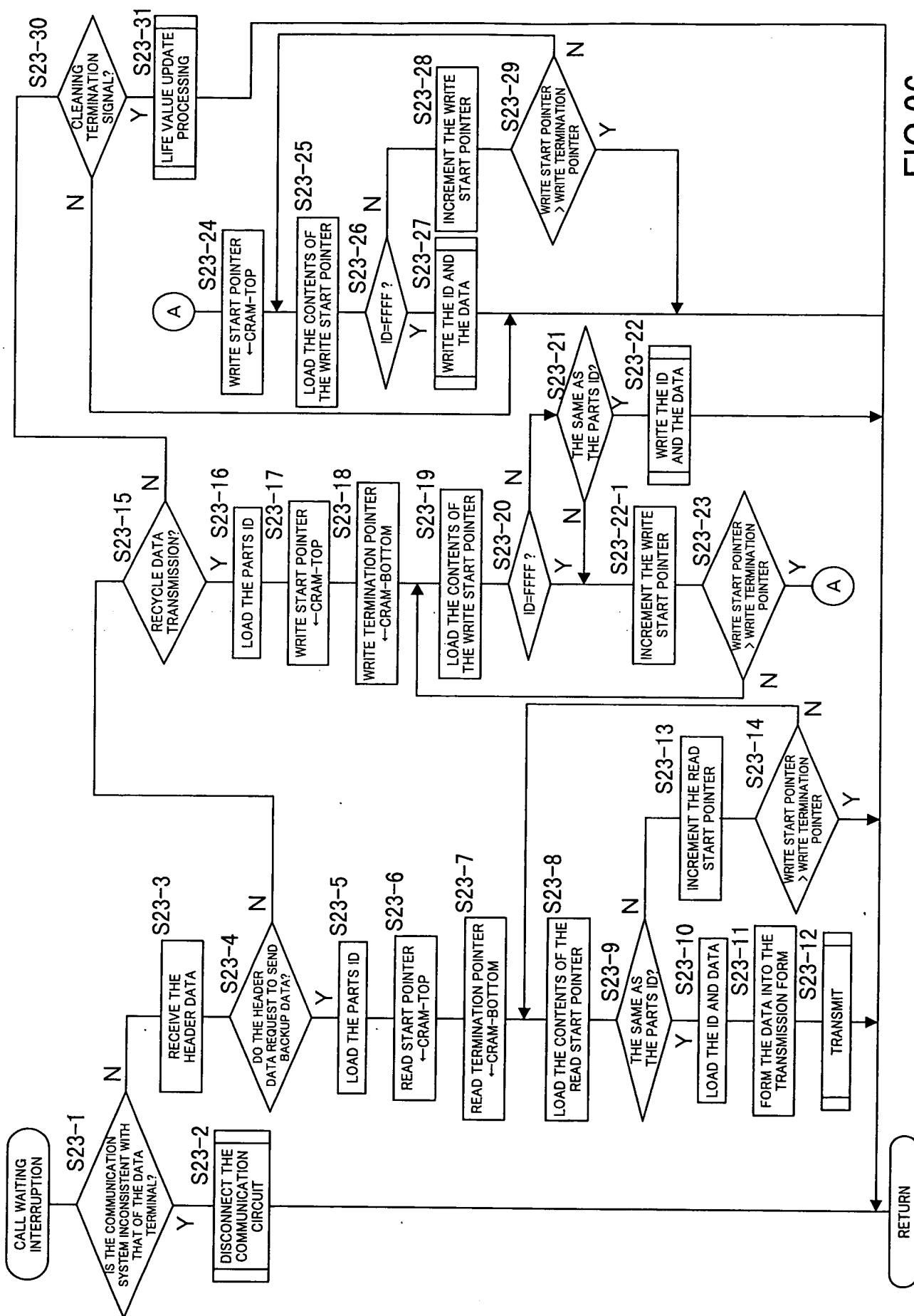


FIG.25B



```

graph TD
    Start([LIFE VALUE UPDATE  
PROCESSING]) --> S23-31-1[S23-31-1  
LOAD THE PART ID]
    S23-31-1 --> S23-31-2[S23-31-2  
WRITE START POINTER  
←CRAM-TOP]
    S23-31-2 --> S23-31-3[S23-31-3  
WRITE TERMINATION POINTER  
←CRAM-BOTTOM]
    S23-31-3 --> S23-31-4[S23-31-4  
LOAD THE CONTENTS  
SHOWN BY THE WRITE  
START POINTER]
    S23-31-4 --> S23-31-5{S23-31-5  
ID=FFFF?}
    S23-31-5 -- Y --> S23-31-6[S23-31-6  
INCREMENT THE WRITE  
START POINTER]
    S23-31-5 -- N --> S23-31-8{S23-31-8  
THE SAME AS  
THE PARTS ID?}
    S23-31-6 --> S23-31-7{S23-31-7  
WRITE START POINTER  
>  
WRITE TERMINATION  
POINTER}
    S23-31-7 -- N --> S23-31-4
    S23-31-7 -- Y --> Return([RETURN])
    S23-31-8 -- Y --> S23-31-9[S23-31-9  
SEARCH THE LIFE VALUE  
ALLOTTED TO THE PART  
ID FROM THE RAM OF THE  
MANAGEMENT APPARATUS]
    S23-31-8 -- N --> S23-31-6
    S23-31-9 --> S23-31-10[S23-31-10  
REWRITE THE LIFE  
VALUE]
    S23-31-10 --> S23-31-6

```

FIG.27